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Everett

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(54) **PRECISION DISPENSING APPARATUS AND METHOD**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(57) **ABSTRACT**

A precision dispenser comprising a housing having a longitudinal axis, a chamber therein and an outlet from which a controlled amount of fluid leaves the chamber to be deposited on a surface. An impeller is mounted within the housing about the longitudinal axis thereof and is provided with a plurality of parabolic shaped impeller blades located within the chamber. Fluid is supplied from a source to the spaces between the impeller blades, preferably by a passage extending longitudinally along the impeller to one or more orifices located in the impeller between the blades. The impeller is rotated by a controlled drive motor to rotate the blades within the chamber to force fluid from the chamber through the outlet for delivery to the surface.

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(51) Int. Cl.⁷ **G01F 11/00**

(52) U.S. Cl. **222/1; 222/333; 222/410; 222/411; 239/591**

(58) Field of Search **222/410, 411, 222/333, 1; 239/591**

(56) **References Cited**

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15 Claims, 3 Drawing Sheets

